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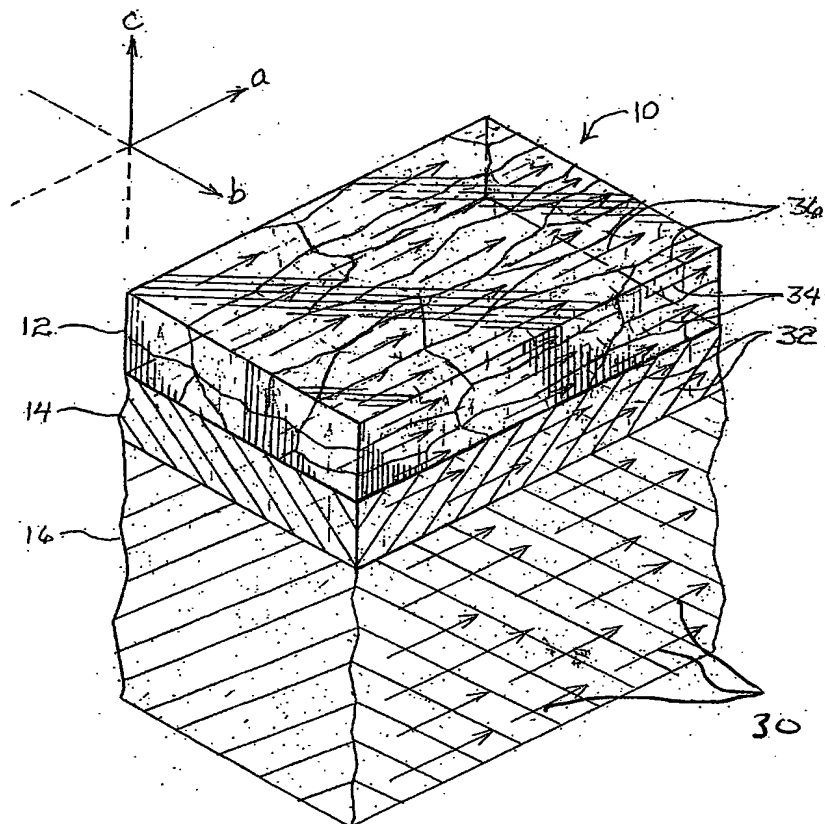
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(54) Title: ELECTRODEPOSITION OF BIAXIAL TEXTURED FILMS



(57) **Abstract:** The present invention provides a method of forming a biaxially textured gold buffer layer (14) on a substrate (16) by electrodeposition. A superconducting material (12) may be deposited onto the biaxially textured gold layer (14). The biaxial texturing in the gold layer (14) is maintained in the deposited superconductor material (12) to produce high critical current density.